Amendments to the Claims

Please amend claims 1-9 and add new claims 10-16 as shown below.

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A printing system comprising:

a host machine including,

an application ~~generating~~ to generate page data at a predetermined bit rate per plane per pixel,

an image processor,~~ receiving the page data,~~ based on image data contained in a pixel or a group of pixels in the page data, to render ~~rendering~~ interim data that contains a multi-bit value per plane per pixel including print engine control information for the pixel or the group of pixels, and

an I/O device to communicate ~~for communicating~~ the interim data; and

a printing device including,

an I/O device to communicate ~~for communicating~~ the interim data,

a pulse code generator, to receive ~~receiving~~ the interim data, for each multi-bit value, and to generate ~~generating~~ a pulse code corresponding to the multi-bit value, and

a print engine ~~, receiving~~ to receive the pulse codes and to transform ~~,~~ ~~transforming~~ the pulse codes ~~code~~ to a hardcopy image.

2. (Currently amended) A printing system, as defined in claim 1, wherein each multi-bit value comprises ~~includes~~ print parameters.

3. (Currently amended) A printing system, as defined in claim 2, wherein the print parameters are selected from a group that includes [[as]] toner miser mode, toner explosion, and edge roll off.

4. (Currently amended) A method for rendering a hardcopy image comprising:

on a host machine,

generating page data at a selected bit rate per plane per pixel,

examining pixel data for a pixel or a group of pixels in the page data, either individually or in relation to neighboring pixels;

based on the pixel data, rendering data to interim multi-bit values per plane per pixel interim value, the rendered data including print engine control information for the pixel or the group of pixels, and

transferring the interim multi-bit values; and

on a printing device,

transferring the interim multi-bit values to and from the host machine,

generating pulse codes from the interim multi-bit values, and

rendering a hardcopy image from the pulse codes.

5. (Currently amended) A method for rendering a hardcopy image as defined in claim 4, wherein each multi-bit value comprises ~~includes~~ print parameters.

6. (Currently amended) A method for rendering a hardcopy image as defined in claim 5, wherein the print parameters are selected from a group that includes [[as]] toner miser mode, toner explosion, and edge roll off.

7. (Currently amended) A host machine comprising:

an application ~~generating~~ to generate page data at a predetermined bit rate per plane per pixel,

an image processor to receive ~~, receiving~~ the page data, to examine pixel data for a pixel or a group of pixels in the page data, either for individual pixels or in relation to neighboring pixels, and ~~rendering~~ to render interim data that contains a multi-bit value per plane per pixel, the interim data including print engine control information for the pixel or the group of pixels, and

an I/O device to communicate ~~for communicating~~ the interim data.

8. (Currently amended) A host machine ~~printing system~~, as defined in claim 7, wherein each multi-bit value ~~includes~~ comprises print parameters.

9. (Currently amended) A host machine ~~printing system~~, as defined in claim 8, wherein the print parameters are selected from a group that includes [[as]] toner miser mode, toner explosion, and edge roll off.

10. (New) A printing system comprising:
a host machine including,
means for generating page data at a predetermined bit rate per plane per pixel,
processor means for receiving the page data and for rendering interim data based on image data contained in a pixel or a group of pixels in the page data, the interim data containing a multi-bit value per plane per pixel and print engine control information for the pixel or the group of pixels, and
I/O means for communicating the interim data, and
a printing device including,
I/O means for communicating the interim data,
generator means for receiving the interim data and for each multi-bit value, generating a pulse code corresponding to the multi-bit value, and
print means for receiving the pulse codes and transforming the pulse code to a hardcopy image.

11. (New) A printing system as defined in claim 10, wherein each multi-bit value comprises print parameters.

12. (New) A printing system as defined in claim 11, wherein the print parameters are selected from a group that includes a toner miser mode, toner explosion, and edge roll off.

13. (New) A method for rendering a hardcopy image, the method comprising:
generating page data at a selected bit rate per plane per pixel based on data contained in a pixel or a group of pixels,

rendering data to interim multi-bit values per plane per pixel, the interim multi-bit values including print engine control information for the pixel or the group of pixels,

generating pulse codes directly from the interim multi-bit values, and

rendering a hardcopy image from the pulse codes.

14. (New) A method for rendering a hardcopy image as defined in claim 13, wherein each multi-bit value comprises print parameters.

15. (New) A method for rendering a hardcopy image as defined in claim 14, wherein the print parameters are selected from a group that includes a toner miser mode, toner explosion, and edge roll off.

16. (New) A host machine comprising:

means for generating page data at a predetermined bit rate per plane per pixel based on data contained in a pixel or a group of pixels,

means for receiving the page data and rendering interim data that contains a multi-bit value per plane per pixel, the interim data including print engine control information for the pixel or the group of pixels, and

means for communicating the interim data.